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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,730	11/20/2003	Daniel N. Cripe	200313587-1	8712
	7590 12/14/2007 CKARD COMPANY		EXAM	INER
P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION			SINKANTARAKORN, PAWARIS	
	AL PROPERTY ADMI IS, CO 80527-2400	NISTRATION ART UNIT PAPER NUMBER		
			2616	
			NOTIFICATION DATE	DELIVERY MODE
			12/14/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)	
	10/717,730	CRIPE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Pao Sinkantarakorn	2616	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re- riod will apply and will expire SIX (6) MON atute, cause the application to become AB	CATION. apply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 2	5 September 2007.		
2a)⊠ This action is FINAL . 2b)□ 1	This action is non-final.		
3) Since this application is in condition for allo			•
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims	•		
4) Claim(s) 1-21 is/are pending in the applicat	ion.		
4a) Of the above claim(s) is/are with	drawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-21</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction an	id/or election requirement.	•	
Application Papers			-
9) The specification is objected to by the Exam	niner.		
10) The drawing(s) filed on is/are: a)	accepted or b)□ objected to l	by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the cor	·) .
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☐ None of:	eign priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority docum	ents have been received.		
2. Certified copies of the priority docum	ents have been received in A	pplication No	
3. Copies of the certified copies of the p	priority documents have been	received in this National Stage	
application from the International Bu			
* See the attached detailed Office action for a	list of the certified copies not	received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		ummary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948))/Mail Date Iformal Patent Application	
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	* *	

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DETAILED ACTION

1. Claims 1-21 are currently pending in the application.

Claim Rejections - 35 USC § 103

- 1. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1-4 and 7-20 rejected under 35 U.S.C. 103(a) as being unpatentable over Congdon et al. (US 6,151,297) in view of Siu et al. (newly cited US 7,072,345).

Regarding claim 1, Congdon et al. disclose a computer system comprising:
a central processing unit (CPU) (see column 6 line 15, Network Operating
System runs on a CPU);

a first and second network adapter teamed together and configured to receive offloaded connections (see column 8 lines 57-64, when multiple NICs in a server are attached to a network and the NICs are using the same MAC address, it is possible to receive packets on many ports); and

wherein a program executing on the CPU reloads an offloaded connection established by the first network adapter onto the second network adapter if one of a plurality of packets associated with the offloaded connection was received on the second network adapter (see column 8 lines 1-5, 12-14, and 26-39, the NICs are active on the network at the same time and the invention supports a fault tolerance feature; fault tolerance enables a system to continue operating properly in the event of the failure of some of its components. The switch selects one of the multiple NICs using the fault tolerance feature when one of the NICs fails so that there is no need to reestablish a new connection).

Congdon et al. merely disclose fault tolerance. However, Siu et al. from the same or similar fields of endeavor disclose a method for transferring connections to a different port as a result of one of a plurality of packets associated with the offloaded connection

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being received on the second network adapter (see column 8 lines 23-44, fault tolerance is incorporated into a switch, wherein when a port fails, the connections are reloaded onto another port).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to implement a method for transferring connections to a different port as a result of one of a plurality of packets associated with the offloaded connection being received on the second network adapter of Siu et al. into the switch of Congdon et al.

The motivation for implementing a method for transferring connections to a different port as a result of one of a plurality of packets associated with the offloaded connection being received on the second network adapter is that it increases the efficiency of the switch.

Regarding claims 2 and 17, the first and second network adapters are capable of fully offloading all protocol processing (see column 6 lines 34-38);

regarding claims 3 and 18, the first and second network adapters transmit and receive packets of data using a single media access control (MAC) and internet protocol (IP) address (see column 8 lines 1-5);

regarding claim 4, the program reloads an offloaded connection by transferring the context of the connection from the first network adapter to the second network adapter (see column 8 lines 26-39, fault tolerance feature allows the second network

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adapter to receive the packet assigned to transport via the first network adapter when the first network adapter fails);

regarding claim 7, the first and second network adapters comprise network interface cards (NICs) (see column 6 line 2).

examining a packet received from an external device 9see column 7 lines 38-42); determining whether a connection associated with the packet is currently offloaded (see column 8 lines 26-39, fault tolerance feature determines whether there is any fail NIC in the server, therefore, determines whether a connection associated with the packet is currently transmitted);

Regarding claims 8, 12, and 16, Congdon et al. disclose a method comprising:

reloading the connection if the packet associated with the connection is offloaded and received by a network interface not currently processing the offloaded connection (see column 8 lines 1-5, 12-14, and 26-39, the NICs are active on the network at the same time and the invention supports a fault tolerance feature; fault tolerance enables a system to continue operating properly in the event of the failure of some of its components. The switch selects one of the multiple NICs using the fault tolerance feature when one of the NICs fails so that there is no need to reestablish a new connection).

Congdon et al. merely disclose fault tolerance. However, Siu et al. from the same or similar fields of endeavor disclose a method for transferring connections to a different port as a result of one of a plurality of packets associated with the offloaded connection being received on the second network adapter (see column 8 lines 23-44, fault

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tolerance is incorporated into a switch, wherein when a port fails, the connections are reloaded onto another port).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to implement a method for transferring connections to a different port as a result of one of a plurality of packets associated with the offloaded connection being received on the second network adapter of Siu et al. into the switch of Congdon et al.

The motivation for implementing a method for transferring connections to a different port as a result of one of a plurality of packets associated with the offloaded connection being received on the second network adapter is that it increases the efficiency of the switch.

regarding claims 9 and 13, further comprising determining an identifier for the network interface that receives the packet (see column 7 lines 38-44, the switch determines the output port by looking up the Destination Address in the address table) and writing the determined identifier to a memory (see column 7 address table);

regarding claims 10, 14, and 19, the reloading further comprising copying the context of the connection to the network interface that received the packet (see column 8 lines 26-39, fault tolerance feature allows the second network adapter to receive the packet assigned to transport via the first network adapter when the first network adapter fails);

regarding claims 11 and 15, the network interface that received the packet and the network interface currently offloading the connection are teamed together (see

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column 6 lines 13-17, the group of NICs appear as a single NIC to the clients in the network);

regarding claim 20, the program monitors all data received by the first and second means for sending and receiving data connections (see column 7 lines 38-44, the switch determines the output port by looking up the Destination Address in the address table).

7. Claims 5, 6, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Congdon et al. in view of Siu et al. as applied to claims and 1 and 16 above, and further in view of Mahalingham et al. (US 6,314,525).

Regarding claims 5, 6, and 21, Congdon et al. in view of Siu et al. disclose all the subject matter of the claimed invention except the system/method, wherein the program inactivates connections associated with packets that have not been received for a defined time period and send a notification to the program.

However, the invention of Mahalingham et al. from the same or similar fields of endeavor disclose a method/system for deactivating a network adapter when the network adapter fails to respond after a predetermined time period, and notifying the program about the deactivation (see column 9 lines 46-56).

Thus, it would have been obvious to the person of ordinary skill in the art to implement a method/system for deactivating a network adapter when the network adapter fails to respond after a predetermined time period, and notifying the program about the deactivation into the data processing method of Congdon et al.

The motivation for implementing the method/system for deactivating a network adapter when the network adapter fails to respond after a predetermined time period, and notifying the program about the deactivation is that it increases efficiency of the NICs in the server.

Response to Arguments

5. Applicant's arguments filed 9/25/2007 have been fully considered but they are not persuasive.

On pages 1 and 2 of the remarks, the applicants submit that Siu does not teach or even suggest "reloading as a result of one of a plurality of packets associated with the offloaded connection being received on the second network adapter." The examiner respectfully disagrees. Siu et al. disclose what happens when failure occurs in the outer layer. Siu teaches that in such a case, the output port can be flagged as disabled and the cells are routed to a different output port and that the router adjusts its routing functions to accommodate the failure (see column 8 lines 39-44). Siu clearly teaches that when one of the ports fails, the cells are routed to a different output port. Once the cells are received at the different output port, the router adjust its routing functions to reload the cells onto the different output port, which reads on the claim limitation "reloading as a result of one of a plurality of packets associated with the offloaded connection being received on the second network adapter."

In view of the reasoning above, the examiner believes that the 103(a) rejection should be sustained.

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Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure

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relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pao Sinkantarakorn whose telephone number is 571-270-1424. The examiner can normally be reached on Monday-Thursday 9:00am-3:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PS

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RICKY Q. NGO SUPERVISORY PATENT EXAMINER